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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-07-17-01** **Date: 19-07-18**

Project Name : Construction of Marriage Community hall Chikkabettahalli Village in ward No.03 of Yelahanka Assembly Constitutency.

Agency : Sri.H.V Omkarappa, Class-1 PWD Contractor, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.

Work Order No : EE(project)/Ynk Zone/WO/119/2017-18

Date of Receipt : 17-07-18

Sample ID No : 2018-07-17-01 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 17-07-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	57	57	5.7	94.3	90-100	90-100	90-100	95-100
3	2.36 mm	129	186	18.6	81.4	60-95	75-100	85-100	95-100
4	1.18 mm	219	405	40.5	59.5	30-70	55-90	75-100	90-100
5	600 micron	203	608	60.8	39.2	15-34	35-59	60-79	80-100
6	300 micron	179	787	78.7	21.3	5-20	8-30	12-40	15-50
7	150 micron	149	936	93.6	6.4	0-10	0-10	0-10	0-15
8	Pan	64	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-07-17-01**

Date: 19-07-18

Sample ID No : 2018-07-17-01 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.48	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron(%)	5.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Quality Manager

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2018-07-17-01** **Date: 19-07-18**
Project Name	:	Construction of Marriage Community hall Chikkabettahalli Village in ward No.03 of Yelahanka Assembly Constitutency.
Agency	:	Sri.H.V Omkarappa, Class-1 PWD Contractor, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(project)/Ynk Zone/WO/119/2017-18
Date of Receipt	:	17-07-18
Sample ID No	:	2018-07-17-01 /04
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	18-07-18

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	632	22.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.612	528	642	21.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.884	548	668	21.0%	Satisfactory	Satisfactory
4	Sunvik	Fe500	16	1.583	572	672	20.0%	Satisfactory	Satisfactory
5	Sunvik	Fe500	20	2.473	583	692	20.0%	Satisfactory	Satisfactory
6	Sunvik	Fe501	25	3.473	598	710	18.0%	Satisfactory	Satisfactory

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2018-07-17-01** **Date: 21-07-18**
Project Name	:	Construction of Marriage Community hall Chikkabettahalli Village in ward No.03 of Yelahanka Assembly Constitutency.
Agency	:	Sri.H.V Omkarappa, Class-1 PWD Contractor, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.
Work Order No	:	EE(project)/Ynk Zone/WO/119/2017-18
Date of Receipt	:	17-07-18
Sample ID No	:	2018-07-17-01 /07
Sample Type/Size	:	Solid concrete blocks size (400X100X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	18-07-18

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	101	202	8202	16.890	2059.4	2010.6	Not less than 1800Kg/m^3
2	401	102	201	8221	16.550	2013.1		
3	402	102	203	8324	16.310	1959.4		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	17.520	16.550	5.86	5.46	Shall not be more than 10% by mass
2	17.650	16.790	5.12		
3	17.590	16.690	5.39		

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Lab ID : CP-2018-07-17-01 Date: 21-07-18

Sample ID No : 2018-07-17-01 /07

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	103	202	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	101	201	
3	402	102	202	
4	401	102	203	
5	403	103	201	
6	401	102	203	
7	402	103	201	
8	401	102	203	
9	402	103	201	
10	403	100	200	
11	401	102	203	
12	402	100	201	
13	403	102	203	
14	402	103	201	
15	400	102	202	
16	403	102	203	
17	401	103	201	
18	403	102	203	
19	401	102	202	
20	402	101	203	
Average of 20	**402**	**102**	**202**	

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Lab ID : CP-2018-07-17-01 Date: 21-07-18

Sample ID No : 2018-07-17-01 /07

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	402	103	41406	198.6	4.8	4.6
2	401	101	40501	178.9	4.4	
3	402	102	41004	185.3	4.5	
4	401	102	40902	199.7	4.9	
5	403	103	41509	181.6	4.4	
6	401	102	40902	185.2	4.5	
7	402	103	41406	173.9	4.2	
8	401	102	40902	192.5	4.7	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	CP-2018-07-17-01 **Date: 21-07-18**
Project Name	:	Construction of Marriage Community hall Chikkabettahalli Village in ward No.03 of Yelahanka Assembly Constitutency.
Agency	:	Sri.H.V Omkarappa, Class-1 PWD Contractor, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.
Work Order No	:	EE(project)/Ynk Zone/WO/119/2017-18
Date of Receipt	:	17-07-18
Sample ID No	:	2018-07-17-01 /07
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	18-07-18

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	202	203	16484	34.140	2071.0	2089.4	Not less than 1800Kg/m^3
2	401	201	201	16201	34.230	2112.9		
3	402	202	202	16403	34.190	2084.3		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	35.890	34.250	4.79	4.42	Shall not be more than 10% by mass
2	35.750	34.390	3.95		
3	35.830	34.280	4.52		

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Lab ID : CP-2018-07-17-01

Date: 21-07-18

Sample ID No : 2018-07-17-01 /07

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	202	201	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	201	203	
3	403	203	201	
4	402	201	203	
5	401	203	201	
6	402	202	199	
7	403	201	202	
8	401	203	201	
9	403	201	203	
10	401	203	201	
11	402	201	203	
12	403	203	201	
13	401	201	200	
14	402	203	201	
15	401	199	203	
16	403	202	201	
17	401	201	203	
18	402	203	201	
19	403	201	203	
20	404	202	201	
Average of 20	**402**	**202**	**202**	

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Lab ID : CP-2018-07-17-01 Date: 21-07-18

Sample ID No : 2018-07-17-01 /07

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	402	202	81204	448.9	5.5	5.5
2	401	201	80601	422.9	5.2	
3	403	203	81809	432.9	5.3	
4	402	201	80802	444.9	5.5	
5	401	203	81403	452.6	5.6	
6	402	202	81204	474.6	5.8	
7	403	201	81003	455.8	5.6	
8	401	203	81403	442.6	5.4	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-07-17-01** **Date: 20-07-18**
Project Name	:	Construction of Marriage Community hall Chikkabettahalli Village in ward No.03 of Yelahanka Assembly Constitutency.
Agency	:	Sri.H.V Omkarappa, Class-1 PWD Contractor, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.
Work order No	:	EE(project)/Ynk Zone/WO/119/2017-18
Date of Receipt	:	17-07-18
Sample ID No	:	2018-07-17-01 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	18-07-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.05	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.6	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-07-16-01** **Date: 14-08-18**
Project Name	:	Construction of Marriage Community hall Chikkabettahalli Village in ward No.03 of Yelahanka Assembly Constitutency.
Agency	:	Sri.H.V Omkarappa, Class-1 PWD Contractor, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.
Work order No	:	EE(project)/Ynk Zone/WO/119/2017-18
Date of Receipt	:	16-07-18
Sample ID No	:	2018-07-16-01 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	17-07-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2018-07-17-01 **Date: 19-07-18**
Project Name	:	Construction of Marriage Community hall Chikkabettahalli Village in ward No.03 of Yelahanka Assembly Constitutency.
Agency	:	Sri.H.V Omkarappa, Class-1 PWD Contractor, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.
Work Order No	:	EE(project)/Ynk Zone/WO/119/2017-18
Date of Receipt	:	17-07-18
Sample ID No	:	2018-07-17-01 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	17-07-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	- 100
2	20 mm	318	318	6.4	93.6	90-100
3	10 mm	2852	3170	63.4	36.6	25-55
4	4.75 mm	1622	4792	95.8	4.2	0-10
5	Pan	208	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-07-17-01** **Date: 19-07-18**

Sample ID No : 2018-07-17-01 /02(b)

PHYSICAL PROPERTIES

SLno	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**8.9**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**10.7**	
3	Specific Gravity	**2.62**	–
4	Bulk Density(Loose) (Kg/l)	**1.45**	–
5	Bulk Density(Compacted) (Kg/l)	**1.51**	–
6	Water Absorption(%)	**0.25**	–
7	Aggregate crushing Value(%)	**23.8**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**22.4**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-07-17-01** **Date: 20-07-18**
Project Name	:	Construction of Marriage Community hall Chikkabettahalli Village in ward No.03 of Yelahanka Assembly Constitutency.
Agency	:	Sri.H.V Omkarappa, Class-1 PWD Contractor, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.
Work Order No	:	EE(project)/Ynk Zone/WO/119/2017-18
Date of Receipt	:	17-07-18
Sample ID No	:	2018-07-17-01 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	17-07-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	385	385	2.6	97.4	90-100
3	20 mm	7048	7433	49.6	50.4	30-70
4	10 mm	4396	11829	78.9	21.1	10-35
5	4.75 mm	2845	14674	97.8	2.2	0-5
6	Pan	326	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-07-17-01** **Date: 20-07-18**

Sample ID No : 2018-07-17-01 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**13.7**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.9**	
3	Specific Gravity	**2.64**	_
4	Bulk Density(Loose) (Kg/l)	**1.42**	_
5	Bulk Density(Compacted) (Kg/l)	**1.48**	_
6	Water Absorption(%)	**0.23**	_

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-09-8-01** **Date: 13/09/2018**

Project Name : Construction of Marriage Community hall Chikkabettahalli Village in ward No.03 of Yelahanka Assembly Constitutency.

Agency : Sri.H.V Omkarappa, Class-1 PWD Contractor, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.

Customer's Reference : EE(project)/Ynk Zone/WO/119/2017-18

Date of Receipt : 01-08-18

Sample ID No : 2018-08-01-01 /01

Customer ID : PCC(M10)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M10 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC(M10)	M10	06/09/2018	13/09/2018	150.19 X 150.53 X 150.81	22608	**8.505**	186.8	8.3	8.2
2	PCC(M10)	M10	06/09/2018	13/09/2018	151.42 X 150.13 X 148.55	22733	**8.088**	178.4	7.8	
3	PCC(M10)	M10	06/09/2018	13/09/2018	150.25 X 149.11 X 151.60	22403	**8.627**	192.7	8.6	

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****End of Report****